

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 61167115
PUBLICATION DATE : 28-07-86

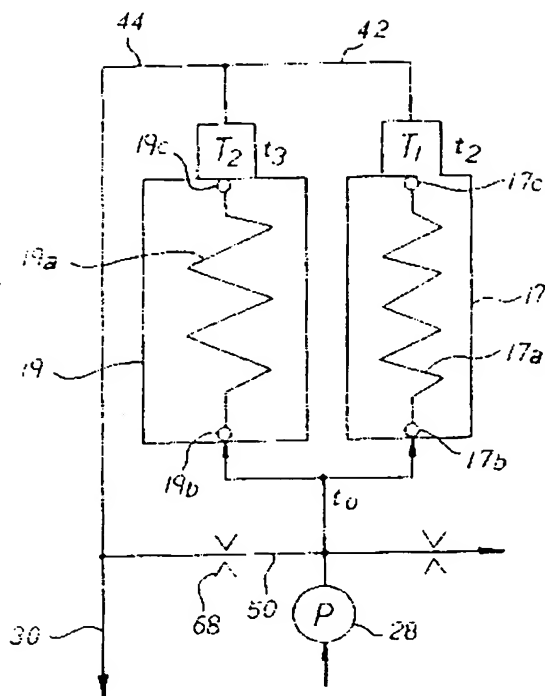
APPLICATION DATE : 17-01-85
APPLICATION NUMBER : 60007243

APPLICANT : YANMAR DIESEL ENGINE CO LTD;

INVENTOR : OZAKI YASUHIRO;

INT.CL. : F01P 7/16 F01P 3/02 F01P 3/20

TITLE : COOLING DEVICE OF ENGINE



ABSTRACT : PURPOSE: To keep optimum temperature by separating cooling water temperature control systems of a cylinder head and a cylinder block in an engine in which a crank shaft is disposed in the longitudinal direction.

CONSTITUTION: In an engine in which a crank shaft of an outboard unit in the longitudinal direction, a cooling water path 17a flowing in a cooling jacket in a cylinder head 17 and a cooling water path 19a flowing in a cooling jacket in a cylinder block 19 are provided separately, and cooling water from a cooling water pump 28 is flowed. And valves T_1 , T_2 controlling flow rate recording to the temperature are provided on outlets of respective paths, and the setting temperature T_2 of the valve T_1 is lowered to keep the temperature of the cooling water of the cylinder head working to cool the intake air low and the setting temperature t_3 of the valve T_2 is raised to keep the temperature of the cooling path of the cylinder block working to control the temperature in a combustion chamber high.

COPYRIGHT: (C)1986,JPO&Japio